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Sorghum and Soybean Production Guide: A Summary of Recommendations

Cooperative Extension South Dakota State University

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SORGHUM
and
SOYBEAN
PRODUCTION
GUIDE

Varieties
Seeding Dates and Rates
Fertilization
Weed Control
Insect Control
Disease Control

Cooperative Extension Service
South Dakota State University
United States Department of Agriculture
SORGHUM and SOYBEAN PRODUCTION GUIDE

A Summary of Recommendations

Varieties
Seed Dates and Rates
Fertilization

Weed Control
Insect Control
Disease Control
**Sorghum and Soybean Production Guide**

### Soybeans

<table>
<thead>
<tr>
<th>Variety</th>
<th>Adaptation</th>
<th>Area of Best Adaptation</th>
<th>Seeding Rate</th>
<th>Seeding Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybeans</td>
<td></td>
<td>SD, NE, WY, MT, ND, IA, IL, IN</td>
<td>May 15 to June 10</td>
<td></td>
</tr>
<tr>
<td>Forage Soybeans</td>
<td></td>
<td>SD, NE, WY, MT, ND, IA, IL, IN</td>
<td>May 15 to June 10</td>
<td></td>
</tr>
</tbody>
</table>

#### Chemical Weed Control

<table>
<thead>
<tr>
<th>Herbicide</th>
<th>Rate</th>
<th>Formulation</th>
<th>Time of Application</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roundup</td>
<td>1 pt</td>
<td>RTU</td>
<td>Pre-plant, Pre-emergence</td>
<td></td>
</tr>
<tr>
<td>Atrazine</td>
<td>0.8 pt</td>
<td>RTU</td>
<td>Pre-plant, Pre-emergence</td>
<td></td>
</tr>
<tr>
<td>Propazine</td>
<td>0.8 pt</td>
<td>RTU</td>
<td>Pre-plant, Pre-emergence</td>
<td></td>
</tr>
<tr>
<td>Trifluralin</td>
<td>2.3 oz</td>
<td>Water Gelled</td>
<td>Pre-plant, Pre-emergence</td>
<td></td>
</tr>
</tbody>
</table>

#### Disease and Insect Control

### Fertilizer

<table>
<thead>
<tr>
<th>Fertilizer</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 lb/acre</td>
<td>High</td>
</tr>
<tr>
<td>0.5 lb/acre</td>
<td>Very high</td>
</tr>
<tr>
<td>0.25 lb/acre</td>
<td>Medium</td>
</tr>
<tr>
<td>0.13 lb/acre</td>
<td>Low</td>
</tr>
</tbody>
</table>

**Sorghum and Soybean Production: Benefits and Considerations**

Sorghum and soybeans are two of the most important crops in South Dakota. They provide substantial economic benefits to the state's agriculture sector. Each crop has unique characteristics and requires specific management practices to optimize yield and profitability.

**Sorghum**

- **Adaptation:** Suitable for a wide range of soil types and growing conditions.
- **Yield:** Averaging 40 bushels per acre for forage and 70 bushels per acre for grain.
- **Management:** Requires timely planting, proper irrigation, and effective weed control.

**Soybeans**

- **Adaptation:** Best suited for areas with well-drained soils and adequate rainfall.
- **Yield:** Averaging 35 bushels per acre.
- **Management:** Requires proper soil testing, nutrient management, and disease and pest control.

### Nutrient Recommendations

- **N: P: K** Ratios for Both Crops are Recommended.
- **K:** Higher amounts needed for soybeans.
- **P:** Soybeans are more sensitive to phosphorus than sorghum.

**MAPS AND AREAS**

- **Crops Distribution:** Maps showing the distribution of soybeans and sorghum across the state.
- **SOIL TESTS:** Recommended soil test results for nutrient management.

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